

Brandon Murakami  
High Energy Division 362  
Argonne National Laboratory  
Argonne, IL 60439  
(630) 252-1373, FAX (630) 252-5047  
murakami@hep.anl.gov

---

### *Education*

- Ph.D. Physics, University of California, Davis, 2002.
- B.A. Physics, University of California, Berkeley, 1993.

### *Research Appointments*

- August 2002 to present. Research Associate. High Energy Physics Division, Theory Group, Argonne National Laboratory.

### *Publications*

1. B. Murakami, J.D. Wells, “Abelian  $D$ -terms and the superpartner spectrum of anomaly-mediated supersymmetry breaking,” submitted to Phys. Rev. D, March 2003, [hep-ph/0302209].
2. B. Murakami, K. Tobe, and J.D. Wells, “ $D$ -term challenges for supersymmetric gauged abelian flavor symmetries,” Phys. Lett. B **526**, 157 (2002), [hep-ph/0111003].
3. B. Murakami, “The impact of lepton-flavor violating  $Z'$  bosons on muon  $g-2$  and other muon observables,” Phys. Rev. D **65**, 055003 (2002), [hep-ph/0110095].
4. B. Murakami and J.D. Wells, “Complementarity of muon-conversion and collider-based experiments for generation-dependent  $U(1)$  gauge bosons,” submitted to the Snowmass 2001 proceedings, [hep-ph/0111065].
5. T. Abe, *et al.* (American Linear Collider Working Group), *Linear Collider Physics Resource Book for Snowmass 2001*, <http://www.slac.stanford.edu/grp/th/LCBook/>.
6. B. Murakami and J.D. Wells, “Nucleon scattering with higgsino and wino cold dark matter,” Phys. Rev. D **64**, 015001 (2001), [hep-ph/0011082].

### *Seminars*

- “Establishing supersymmetric seesaw through lepton flavor violation and cosmology,” Michigan State University, October 21, 2003.
- “The impact of muon conversion experiments on linear collider studies,” American Linear Collider Workshop, July 14, 2003, Cornell University, Ithaca, NY.
- “Anomaly mediated supersymmetry breaking and the ancillary  $U(1)$  formalism,” SLAC, Stanford, CA, September 10, 2003; SUSY 2003, Tuscon, AZ, June 7, 2003;

Pheno 2003, Madison, WI, May 5, 2003; Fermi National Accelerator Laboratory, April 24, 2003; SUGRA 20, Boston, MA, March 20, 2003; Argonne National Laboratory, March 11, 2003.

- “Lepton flavor violation through  $Z'$  bosons,” Argonne National Laboratory, February 18, 2002; also given at the 2nd APS California Section Meeting, Davis, CA, March 30, 2002 and Purdue University, West Lafayette, IN, September 23, 2002.
- “Complementarity of  $\mu$ - $e$  conversion and LC experiments for LFV  $Z'$  bosons,” APS Snowmass 2001 Summer Study, July 2001.

#### *Conference and Workshop Participation*

- American Linear Collider Workshop, July 13-16, 2003, Cornell University, Ithaca, NY.
- SUSY 2003, June 5-10, 2003, University of Arizona, Tucson, AZ.
- Argonne Workshop on Trends in Neutrino Physics, May 12-16, 2003, Argonne National Laboratory, Argonne, IL.
- Pheno 2003, May 5-7, 2003, University of Wisconsin, Madison, WI.
- SUGRA 20, March 17-21, 2003, Northeastern University, Boston, MA.
- Argonne Theory Institute 2002, September 9-13, 2002, Argonne National Laboratory, Argonne, IL. Also participated in the workshop’s organization.
- Theoretical Advanced Study Institute 2002, June 3-29, 2001, University of Colorado, Boulder, CO.
- APS Snowmass 2001 Summer Study on the Future of Particle Physics, June 30-July 21, 2001, Snowmass, CO. Contributing author to the Snowmass 2001 proceedings and the *Linear Collider Physics Resource Book for Snowmass 2001*.
- Theoretical Advanced Study Institute 2001, June 3-29, 2001, University of Colorado, Boulder, CO.
- UC Davis Higgs Workshop, January 27-28, 2001, University of California, Davis, CA. Also participated in the conference’s organization.
- Berkeley 2000 Linear Collider Workshop, March 29-31, 2000, University of California, Berkeley, CA.
- PASCOS99, Lake Tahoe, December 10-16, 1999, Lake Tahoe, CA. Also participated in the conference’s organization.

#### *Awards*

- GSA Travel Award, Graduate Student Association, UC Davis, June 2001.
- Ryan Couch Travel Award, Department of Physics, UC Davis, June 2001.
- University of California Grant (for doctoral dissertation), (four awards) 2000, 1999, 1998, and 1997.

- University of California Graduate Fee Fellowship, 1996.

#### *Community Service and Leadership*

- Theory seminar organizer for the High Energy Physics Division of Argonne National laboratory, August 2002 through present.
- Education and Outreach Program, Snowmass 2001, July 2001. Provided interactive discussions about science with elementary school students.
- Colloquium committee, Department of Physics, UC Davis, 1999. Assisted in finding colloquium speakers.
- Technology committee, Department of Physics, UC Davis, 1997. Assisted in making purchasing decisions for electronic and computer equipment.

#### *Academic Appointments*

- Teaching Assistant. University of California, Davis, 1996-2001. Also participated in physics education research by developing novel pedagogical methods.
- Research Assistant. University of California, Davis, 1999-2001.